#### FILE NOTATIONS Checked by Chief intered in NID File Approval Letter eation Map Pinned Disapproval Letter ard Indexed Tate Well Completed 1/10: Location Inspected Bond released J.... WW.... TA.... State or Fee Land ...... .w.... os..... PA... LOGS FILED Oriller's Log....

I..... T..... Dual I Lat..... GR-N..... Micro.....

HC Sonic GR..... Lat..... Mi-L.... Sonic.....

CBLog..... CCLog..... Others....

.lectric Logs (No.) .....

#### SUBMIT IN :\_\_\_\_LICATE\* (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

# UNITED STATES

*7* ≒ ∉≛5 DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY USA-U-9274 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME PLUG BACK DEEPEN DRILL & b. TYPE OF WELL MULTIPLE ZONE 8: FARM OR LEASE NAME GAS WELL WELL EX OTHER 2. NAME OF OPERATOR Federal Webb Resources, Inc. 3. ADDRESS OF OPERATOR #28-13
10. FIELD AND POOL, OR WILDCAT 1776 Lincoln Street, Denver, Colorado 80203
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) Wildcat 11. SEC., T., R., M., OB BLK. AND SURVEY OR AREA At proposed prod. zone Sec. 28-39S-8E (to be submitted with Plat) 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE. 12. COUNTY OR PARISH | 13. STATE Utah Kane 17. NO. OF ACRES ASSIGNED TO THIS WELL 15. DISTANCE FROM PROPOSED\* 16. NO. OF ACRES IN LEASE PROPERTY OR LEASE LINE, FT 2,560.00 19. PROPOSED DEPTH 80 (Also to nearest drig. unit line, if any) 20. ROTARY OR CABLE TOOLS 18. DISTANCE FROM PROPOSED LOCATION\*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 3000¹ 22. APPROX. DATE WORK WILL START\* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) Upon Approval 23 PROPOSED CASING AND CEMENTING PROGRAM QUANTITY OF CEMENT SETTING DEPTH WEIGHT PER FOOT SIZE OF CASING SIZE OF HOLE Sufficient to fill to 180' 17" 13-3/8" 24# surface 1. Drill 17" rotary hole for surface casing to approx. 180'

#### PROPOSED WORK:

- 2. Cement approx. 180' of 13-3/8" surface casing with sufficient sxs cement to fill to surface.
- 3. Install and test blowout preventor equipment.
- 4. Blowout preventor to be given a daily operational test and each logged.
- 5. Drill 7-7/8" hole to approx. 3000' in the White Rim formation.
- 6. Run IES and Gamma Ray Sonic Caliper logs.
- 7. If commercial production is indicated, cement 5½" casing through

productive sand and perforate 4 jet holes per foot. IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give portinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any 24. TITLE Exploration Manager DATE 5-31-72 (This space for Federal or State office use) APPROVAL DATE PERMIT NO . DATE TITLE APPROVED BY CONDITIONS OF APPROVAL, IF ANY: Instructions On Reverse Side



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for	Webb Resource	es			· · · · · · · · · · · · · · · · · · ·	-			

defermined the location of #28-13 Federal to be csw sw

Kane

ar. Ge 8 E. of the Salt Lake

County,

Section 28 Township 39 S.

Meridian

Utah

I hereby coracy that this plat is an accurate representation of a correct survey showing the location of #28-13 (Federal

Licensed Land Surveyor No. 265321

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## resources, inc.

1776 LINCOLN STREET DENVER, COLORADO 80203

Utah Oil & Gas Commission 1588 West North Temple Salt Lake City, Utah 84116	ATTN:
FROM: Orlyn Terry, Exploration Manager SUBJECT: APPLICATIONS FOR PERMIT TO DRILL	DATE: 5-31-72 REF:

Enclosed for your approval, please find the Applications for Permit to drill on the following wells:

#15-12 Woolsey NE SW Sec. 15-36S-3E Garfield Co., Utah

#28-13 Federal SW SW Sec. 28-39S-8E Kane County, Utah

The Survey plats will be forwarded to your office as soon as possible.

Thank you.

OLT:sm

enc

SIGNED alynstery for

#### June 5, 1972

Webb Resources Inc. 1776 Lincoln Street Denver, Colorado

> Re: Well No. Federal #28-13 Sec. 28, T. 39 S, R. 8 E, Kane County, Utah

#### Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted. However, said approval is conditional upon a surveyor's plat of the proposed location being forwarded this office as soon as possible.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer HOME: 277-2890 OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation with regard to completing this form will be greatly appreciated.

The API number assigned to this well is 43-025-30010.

Very truly yours,

DIVISION OF OIL 8 GAS CONSERVATION

CLEON B. FEIGHT DIRECTOR

CBF:sd cc: U.S. Geological Survey

#### Branch of Oil and Gas Operations 8416 Federal Building Salt Lake City, Utah 84111

June 16, 1972

Hr. Orlyn Terry Webb Resources, Inc. 1766 Lincoln Street Benver, Colorado 80203

> Re: Well 28-13 Federal SWASW& sec. 28-398-8E, SLM Kame County, Utah Lease U 9274

Dear Mr. Terry:

Enclosed is your copy of the Application for Permit to Drill the referenced well which was approved by this office on June 15, 1972.

I wish to draw your attention to the stipulation attached to the lease insofar as it concerns the discovery of significant archeologic remains during construction eperations. Any such discovery requires that construction be halted until the remains are examined by the Bureau of Land Management.

If you decide to complete the well for production, the  $5\frac{1}{2}$  inch casing must be cemented through the interval of about  $1600^{\circ}$  to  $1400^{\circ}$  to protect fresh water in the Navajo formation.

Sincerely,

(ORIG. SGD.) G. R. DANIELS

Gerald R. Daniels, District Engineer

cc: BLM, Kanab State Div. O&G Cons. / Casper

Put land wall lost@ about 1800 &

Mike Webster 28-13 FEDERAL

Webb Resources

TD 3091 215 133/1 ce w/260 -

No Freshwater shallow

Tops

Rayenta 1430

Chinle 1850

Shinarump 2440 - Total 1800' water

Ranbab 2735

Wh Rim 2800 - Total 1800' Water

2800 up w/40 1000 up w/40 215 up w/40 10 w mKr.

Oral stapproval to abd 7-9-72 Danes

28-13 ted - Webt Dearces.

sec 18 395 8 E

3071 T.D. Whitnen - evalue only

1800' of Water (fresh)

also Shinaways.

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# U LIED STATES

SUBMIT IN TRI-CATE

Form approved. Budget Bureau No. 42-R1424.

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OIL GAS OTHER	DRY		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR			8. FARM OR LEASE NAME
Webb Resources, In 3. ADDRESS OF OPERATOR		***************************************	Federal 9. WELL NO.
1776 Lincoln Stree 4. LOCATION OF WELL (Report location closes also space 17 below.) At surface	et, Denver, Colora early and in accordance with any	ado 80203 State requirements.*	#28-13 10. FIELD AND POOL, OR WILDCAT Wildcat
660° FSL & 66	O' FWL (C SW SW	Sec. 28)	11. SEC., T., R., M., OR BLK. AND SURVEY OR ARBA
			Sec. 28-39S-8E
14. PERMIT NO.	15. ELEVATIONS (Show whether DF	RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
	4691' G.L.		Kane   Utah
16. Check Ap	propriate Box To Indicate N	ature of Notice, Report, or C	Other Data
NOTICE OF INTENT	TION TO:	SUBSEQU	UENT REPORT OF:
[ <del></del> ]	PULL OR ALTER CASING	WATER SHUT-OFF FRACTURE TREATMENT	REPAIRING WELL ALTERING CASING
	ABANDON*	SHOOTING OR ACIDIZING	ABANDONMENT* XX
·	HANGE PLANS	(Other)	
(Other)		(Note: Report results Completion or Recomp	of multiple completion on Well letion Report and Log form.)
<ol> <li>DESCRIBE PROPOSED OR COMPLETED OPER proposed work. If well is direction nent to this work.)*</li> </ol>	RATIONS (Clearly state all pertinen nally drilled, give subsurface locat	t details, and give pertinent dates, ions and measured and true vertice	, including estimated date of starting any al depths for all markers and zones perti-
The subject well words of 3092'. This we plugged and abandon follows:	11 was proven nor	-productive and t	herefore,
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18. I hereby could, that the foregoing is			
		ploration Manager	DATE 8-28-72
(This space for Federal or State offic	levy TITLE EX	ploration Manager	рати <u>8-28-72</u>

SUBMIT IN DUPLICATE. Form approved. Budget Bureau No. 42-E355.5. UNITED STATES (See other in-DEPARTMENT OF THE INTERIOR structions on reverse side) 5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY USA-U-9274 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG\* 1a. TYPE OF WELL: DRY X 7. UNIT AGREEMENT NAME b. TYPE OF COMPLETION: WORK OVER DEEP-EN PLEG DIFF. NEW U CESVR. Other P&A S. FARM OR LEASE NAME 2. NAME OF OPERATOR <u>Federal</u> 9. WELL NO. Webb Resources, Inc. 3. ADDRESS OF OPERATOR #28-13
10. FIELD AND POOL, OR WILDCAT 1776 Lincoln Street, Denver, Colorado 80203
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\* Wildcat 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 660' FSL, 660' FWL (CSW SW SEC. 28) At top prod. interval reported below Sec. 28-39S-8E At total depth 12. COUNTY OR PARISH DATE ISSUED 13. STATE ). Same 6-15-72 Kane Utah 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 15. DATE SPUDDED 19. ELEV. CASINGHEAD 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 7-10-72 P&A

MD & TVD | 22. IF MULTIPLE COMPL.,
HOW MANY\* 6-28-72 23. INTERVALS 20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD ROTARY TOOLS CABLE TOOLS DRILLED BY 0-30921 24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)\* WAS DIRECTIONAL SURVEY MADE no 26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORED no 28 CASING RECORD (Report all strings set in well) CASING SIZE WEIGHT, LB./FT. DEPTH SET (MD) HOLE SIZE CEMENTING RECORD AMOUNT PULLED 13-5/8\* 24# 160 sxs none 29 LINER RECORD TUBING RECORD SIZE TOP (MD) BOTTOM (MD) PACKER SET (MD) SACKS CEMENT\* SCREEN (MD) SIZE DEPTH SET (MD) 31. PERFORATION RECORD (Interval, size and number) ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 2825 -2725 40 sxs 40 sxs 1000-900 250 40 sxs 10 surface SXS 33 \* PRODUCTION DATE FIRST PRODUCTION . PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) WELL STATUS (Producing or shut-in) DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL-BBL. WATER-BBL. GAS-OIL RATIO CALCULATED 24-HOUR RATE FLOW. TUBING PASS. CASING PRESSURE GAS--MCF. WATER-BBL. OIL GRAVITY-API (CORR.) 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

THE Exploration Manager

8-28-72

DATE .

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

PREVENTOR REPORT (SEE REVERSE SIDE)

35. LIST OF ATTACHMENTS
BLOWOUT PREV

SIGNED

# INSTRUCTIONS

or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal report and log on all types of lands and leases to either a Federal agency or a State agency and 24, and 33, below regarding separate reports for separate completions. completion submitting a complete and correct well See instructions on items 22 and/or State office.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formaion and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable, Federal and/or State laws and regulations. All attache ents lon and

should

there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State be listed on this form, see item 35. Federal office for specific instructions. Hem 4: If

leate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval. Indicate which elevation is used as reference intervals, top(s), bottom(s) and interval, or Items 22

"Sacks Coment": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.) Hem 29: Hem 33:

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U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

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Recovered Feet of  Remarks Opened tool for 10 min  1 minute. Closed tool for  60 minute second flow with  Closed tool for 31 minute s  TEMPERATURE Gauge No. 490 Depth: 2428  12 Hour Closest. 88 °F. Blanked Off No	29 minute a strong b econd clos Gauge No. t. Depth:	first close low, declin ed in press  198 2497 12 Hour Clock Yes	ed in pres	ssure. Reo htly after ft. Hour Clock	pened to  30 minut  Tool Opened 9:	ow in ool for ces.  IME A.M. :40 P.MA.M.	County	Interval
Recovered Feet of  Remarks Opened tool for 10 min  1 minute. Closed tool for  60 minute second flow with  Closed tool for 31 minute s  TEMPERATURE Gauge No. 490 Depth: 2428  12 Hour Close Est. 88 °F. Blanked Off No  Actual °F. Pressures	29 minute a strong b econd clos Gauge No. bepth: k Blanked Off	first close low, declin ed in press  198 2497 12 Hour Clock Yes  essures	ed in pres	ssure. Reo htly after  Ft.  Hour Clock	pened to  30 minut  Tool Opened 9:	ow in col for ces.	County	Interval
Recovered Feet of  Remarks Opened tool for 10 min  1 minute. Closed tool for  60 minute second flow with  Closed tool for 31 minute s  TEMPERATURE Gauge No. 490 Depth: 2428  12 Hour Close Est. 88 °F. Blanked Off No  Actual °F. Pressures Field Office	29 minute a strong b econd clos Gauge No. t. Depth:	first close low, declin ed in press  198 2497 12 Hour Clock Yes essures	ed in pres	ssure. Reo	Tool Opened 9: Tool Closed 11 Reported	ow in ool for ces.  IME A.M. :40 P.MA.M.	County	Interval
Recovered Feet of  Remarks Opened tool for 10 min  1 minute. Closed tool for  60 minute second flow with  Closed tool for 31 minute s  TEMPERATURE Gauge No. 490 Depth: 2428 12 Hour Closest. 88 °F. Blanked Off No  Actual °F. Pressures Field Office Initial Hydrostatic 1227 1214	29 minute a strong b econd clos Gauge No. bepth: k Blanked Off Pro Field 1268	first close low, declin ed in press  198 2497 Ft. 12 Hour Clock Yes  essures Office 1254	ed in pres	ssure. Reo htly after  Ft.  Hour Clock	Tool Opened 9: Tool Closed 11	ow in  ool for  ces.  IME  A:M.  :40 P.M.  -A:M.  Computed	County KANE	Interval
Recovered Feet of  Remarks Opened tool for 10 min  1 minute. Closed tool for  60 minute second flow with  Closed tool for 31 minute s  TEMPERATURE Gauge No. 490 Depth: 2428  12 Hour Close Est. 88 °F. Blanked Off No  Actual °F. Pressures Field Office Initial Hydrostatic 1227 1214	29 minute a strong b econd clos Gauge No. bepth: k Blanked Off Pro Field 1268 121	first close low, declin ed in press  198 2497 Ft. 12 Hour Clock Yes  essures  Office 1254 117	ed in pres	ssure. Reo htly after  Ft.  Hour Clock	Tool Opened 9: Tool Closed 11 Reported Minutes	ow in  col for  ces.  IME  A.M.  40 P.M.  -A.M.  L:50 P.M.  Computed  Minutes	County	Interval
Recovered   Feet of	29 minute a strong b econd clos Gauge No. beth: k Blanked Off Pro Field 1268 121 391	first close low, declin ed in press  198 2497 Ft. 12 Hour Clock Yes  essures  Office 1254 117 399	ed in pres	ssure. Reo htly after  Ft.  Hour Clock	Tool Opened 9: Tool Closed 11 Reported Minutes 10	ow in  col for  ces.  ME  A:M.  :40 P.M.  -A:M.  I:50 P.M.  Computed  Minutes  10	County KANE	Interval
Recovered   Feet of	29 minute a strong b econd clos Gauge No. be Depth: k Blanked Off Pro Field 1268 121 391 954	first close low, declin led in press  198 2497 Ft. 12 Hour Clock Yes  office 1254 117 399 970	ed in pres	ssure. Reo htly after  Ft.  Hour Clock	Tool Opened 9: Tool Closed 11 Reported Minutes	ow in  col for  ces.  IME  A.M.  40 P.M.  -A.M.  L:50 P.M.  Computed  Minutes	County KANE State	Interval
Recovered   Feet of	29 minute a strong b econd clos Gauge No. Depth: k Blanked Off Pro Field 1268 121 391 954 418	first close low, declin led in press  198 2497 Ft. 12 Hour Clock Yes  essures  Office 1254 117 399 970 419	ed in pres	ssure. Reo htly after  Ft.  Hour Clock	Tool Closed 11 Reported Minutes 10 30	ow in  col for  ces.  IME  A:M.  :40 P.M.  -A:M.  I:50 P.M.  Computed  Minutes   10  29	County KANE State	Interval
Recovered   Feet of	29 minute a strong b econd clos  Gauge No. Depth: k Blanked Off Pro Field 1268 121 391 954 418 820	first close low, declin ed in press  198 2497 Ft. 12 Hour Clock Yes  essures  Office 1254 117 399 970 419 850	ed in pres	ssure. Reo htly after  Ft.  Hour Clock	Tool Opened 9: Tool Closed 11 Reported Minutes 10 30 60	ow in ool for ces.  IME A.M. 340 P.M A.M. Computed Minutes	County KANE	Interval
Recovered   Feet of	29 minute a strong b econd clos Gauge No. Depth: k Blanked Off Pro Field 1268 121 391 954 418	first close low, declin led in press  198 2497 Ft. 12 Hour Clock Yes  essures  Office 1254 117 399 970 419	ed in pres	ssure. Reo htly after  Ft.  Hour Clock	Tool Closed 11 Reported Minutes 10 30	ow in  col for  ces.  IME  A:M.  :40 P.M.  -A:M.  I:50 P.M.  Computed  Minutes   10  29	County KANE State	Interval
Recovered   Feet of	29 minute a strong b econd clos  Gauge No. Depth: k Blanked Off Pro Field 1268 121 391 954 418 820	first close low, declin ed in press  198 2497 Ft. 12 Hour Clock Yes  essures  Office 1254 117 399 970 419 850	ed in pres	ssure. Reo htly after  Ft.  Hour Clock	Tool Opened 9: Tool Closed 11 Reported Minutes 10 30 60	ow in ool for ces.  IME A.M. 340 P.M A.M. Computed Minutes	County KANE State	
Recovered   Feet of	29 minute a strong b econd clos  Gauge No. Depth: k Blanked Off Pro Field 1268 121 391 954 418 820	first close low, declin ed in press  198 2497 Ft. 12 Hour Clock Yes  essures  Office 1254 117 399 970 419 850	ed in pres	ssure. Reo htly after  Ft.  Hour Clock	Tool Opened 9: Tool Closed 11 Reported Minutes 10 30 60	ow in ool for ces.  IME A.M. 340 P.M A.M. Computed Minutes	County KANE State	Interval
Recovered   Feet of	29 minute a strong b econd clos  Gauge No. Depth: k Blanked Off Pro Field 1268 121 391 954 418 820	first close low, declin ed in press  198 2497 Ft. 12 Hour Clock Yes  essures  Office 1254 117 399 970 419 850	ed in pres	ssure. Reo htly after  Ft.  Hour Clock	Tool Opened 9: Tool Closed 11 Reported Minutes 10 30 60	ow in ool for ces.  IME A.M. 340 P.M A.M. Computed Minutes	County KANE State	Interval
Recovered   Feet of	29 minute a strong b econd clos  Gauge No. Depth: k Blanked Off Pro Field 1268 121 391 954 418 820	first close low, declin ed in press  198 2497 Ft. 12 Hour Clock Yes  essures  Office 1254 117 399 970 419 850	ed in pres	ssure. Reo htly after  Ft.  Hour Clock	Tool Opened 9: Tool Closed 11 Reported Minutes 10 30 60	ow in ool for ces.  IME A.M. 340 P.M A.M. Computed Minutes	County KANE State	Interval

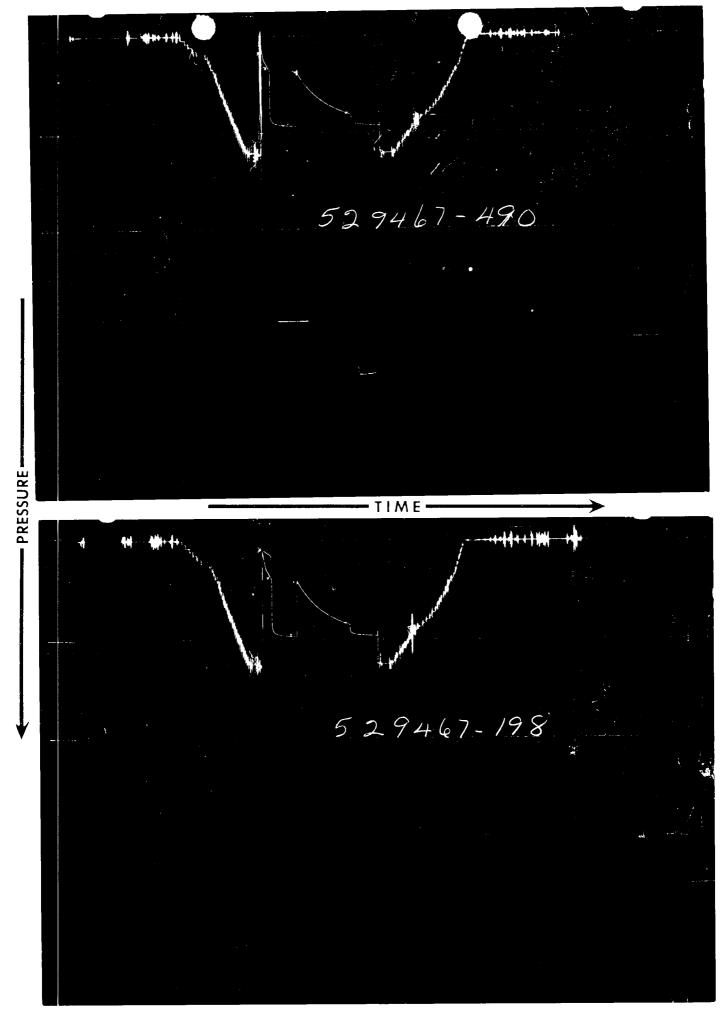
	auge No.		490	E: mak	Depth	Seco	428'	Clock No	Second	129	12 hour		529467	Third	
	First Flow Per	iod	CI	First osed In Pressu	ure		Period	CI	osed In Pressu		Flow F	Period	CI	osed In Pressu	
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	51	.000		346	.000	368	.000		790					
ī	.014	158	.0069		836*	.0688	492	.0206		877**					
2	.028	247	.0207		867	.1376	591	.0343		883					
3	.042	280	.0345		879	.2064	666	.0480		887					
4	.056	314	.0483		887	.2752	718	.0617		889					
5	.070	346	.0621		891	.3440	760	.0754		891					
6			.0759		895	.4130	790	.0891		892					
7			.0897		896			.1028		893					
8			.1035	-	897			.1165		894					
9			.1173		899			.1302		895					
0		2	.1311		900			.1439		896					
11			.1449		901			.1576		897					
12			.1587		903			.1713		898					
13			.1725		904			.1850		899					
4			.1863		905			.1987		899					
5			.2000		907			.2130		899					
C	iouae No	1	.98		Depth	2497'		Clock N	o. 3806	1	L2 hour				
	Gauge No.		.98    000	T	Depth 399		419	Clock N	o. 3806	850	L2 hour			1	
0	.000	117	.000		399	.000		.000	3806		L2 hour				
0	.000 .0142	117 216	.000		399 893*	.000	548	.000	3806	850	L2 hour				
0 1 2	.000 .0142 .0284	117 216 243	.000 .0066 .0198		399 893* 930	.000 .0667 .1334	548 650	.000 .0201 .0335	3806	850 938**	hour hour				
0 1 2 3	.000 .0142 .0284 .0426	117 216 243 332	.000 .0066 .0198 .0330		399 893* 930 944	.000 .0667 .1334	548 650 723	.000 .0201 .0335 .0469	3806	938** 944 948	hour hour				
0 1 2 3 4	.000 .0142 .0284 .0426 .0568	117 216 243 332 364	.000 .0066 .0198 .0330 .0462		399 893* 930 944 952	.000 .0667 .1334 .2001	548 650 723 776	.000 .0201 .0335 .0469	3806	850 938** 944 948 950	hour hour				
0 1 2 3 4 5	.000 .0142 .0284 .0426	117 216 243 332 364	.000 .0066 .0198 .0330 .0462		399 893* 930 944 952 954	.000 .0667 .1334 .2001 .2668	548 650 723 776 819	.000 .0201 .0335 .0469 .0603	3806	938** 944 948	hour hour				
0 1 2 3 4 5 6	.000 .0142 .0284 .0426 .0568	117 216 243 332 364	.000 .0066 .0198 .0330 .0462 .0594		399 893* 930 944 952 954 957	.000 .0667 .1334 .2001	548 650 723 776 819	.000 .0201 .0335 .0469 .0603 .0737	3806	938** 944 948 950 952	hour hour				
0 1 2 3 4 5 6 7	.000 .0142 .0284 .0426 .0568	117 216 243 332 364	.000 .0066 .0198 .0330 .0462 .0594 .0726		399 893* 930 944 952 954 957 961	.000 .0667 .1334 .2001 .2668	548 650 723 776 819	.000 .0201 .0335 .0469 .0603 .0737 .0871	3806	850 938** 944 948 950 952 956	L2 hour				
0 1 2 3 4 5 6 7 8	.000 .0142 .0284 .0426 .0568	117 216 243 332 364	.000 .0066 .0198 .0330 .0462 .0594 .0726 .0858		399 893* 930 944 952 954 957 961' 964	.000 .0667 .1334 .2001 .2668	548 650 723 776 819	.000 .0201 .0335 .0469 .0603 .0737 .0871 .1005	3806	850 938** 944 948 950 952 956 957	hour hour				
0 1 2 3 4 5 6 7 8	.000 .0142 .0284 .0426 .0568	117 216 243 332 364	.000 .0066 .0198 .0330 .0462 .0594 .0726 .0858 .0990		399 893* 930 944 952 954 957 961' 964	.000 .0667 .1334 .2001 .2668	548 650 723 776 819	.000 .0201 .0335 .0469 .0603 .0737 .0871 .1005 .1139	3806	850 938** 944 948 950 952 956 957 958	hour hour				
0 1 2 3 4 5 6 7 8 9	.000 .0142 .0284 .0426 .0568	117 216 243 332 364	.000 .0066 .0198 .0330 .0462 .0594 .0726 .0858 .0990 .1122 .1254		399 893* 930 944 952 954 957 961' 964 966	.000 .0667 .1334 .2001 .2668	548 650 723 776 819	.000 .0201 .0335 .0469 .0603 .0737 .0871 .1005 .1139 .1273	3806	850 938** 944 948 950 952 956 957 958 960	hour hour				
0 1 2 3 4 5 6 7 8 9	.000 .0142 .0284 .0426 .0568	117 216 243 332 364	.000 .0066 .0198 .0330 .0462 .0594 .0726 .0858 .0990 .1122 .1254 .1386		399 893* 930 944 952 954 957 961' 964 966 966	.000 .0667 .1334 .2001 .2668	548 650 723 776 819	.000 .0201 .0335 .0469 .0603 .0737 .0871 .1005 .1139 .1273 .1407	3806	850 938** 944 948 950 952 956 957 958 960 961	hour hour				
0 1 2 3 4 5 6 7 8 9 10 11	.000 .0142 .0284 .0426 .0568	117 216 243 332 364	.000 .0066 .0198 .0330 .0462 .0594 .0726 .0858 .0990 .1122 .1254 .1386		399 893* 930 944 952 954 957 961' 964 966 966 968	.000 .0667 .1334 .2001 .2668	548 650 723 776 819	.000 .0201 .0335 .0469 .0603 .0737 .0871 .1005 .1139 .1273 .1407 .1541	3806	850 938** 944 948 950 952 956 957 958 960 961 962 962	hour hour				
0 1 2 3 4 5 6 7	.000 .0142 .0284 .0426 .0568	117 216 243 332 364	.000 .0066 .0198 .0330 .0462 .0594 .0726 .0858 .0990 .1122 .1254 .1386 .1518		399 893* 930 944 952 954 957 961. 964 966 966 968 969	.000 .0667 .1334 .2001 .2668	548 650 723 776 819	.000 .0201 .0335 .0469 .0603 .0737 .0871 .1005 .1139 .1273 .1407	3806	850 938** 944 948 950 952 956 957 958 960 961 962	L2 hour				
0 1 2 3 4 5 6 7 8 9 10 11 12	.000 .0142 .0284 .0426 .0568	117 216 243 332 364	.000 .0066 .0198 .0330 .0462 .0594 .0726 .0858 .0990 .1122 .1254 .1386	<u> </u>	399 893* 930 944 952 954 957 961' 964 966 966 968	.000 .0667 .1334 .2001 .2668	548 650 723 776 819	.000 .0201 .0335 .0469 .0603 .0737 .0871 .1005 .1139 .1273 .1407 .1541 .1675	3806	850 938** 944 948 950 952 956 957 958 960 961 962 962 962	hour hour				

	529467		, <del></del>	
_	0. D. 6.0"	1. b. 2. 75"	LENGTH 1 V	DEPTH
Reversing Sub	6.0"	2.73		
Water Cushion Valve				
Drill Pipe	43"	3.640"	1899'	
Drill Collars	6.0"	2.25"	510	
Handling Sub & Choke Assembly  Dual CIP Valve	5.0"	. 89"	5	
Dual CIP Sampler	5.0"	.75"	51	2427'
Hydro-Spring Tester	<u> </u>			
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5.0"	3.90"	41	24281
	5.0"	1.50"	51	
Hydraulic Jar	J.U			
VR Safety Joint	5.0"	1.0"	3'	
Pressure Equalizing Crossover				
D. I. Assembly	7/75"	1.53"	6'	2442
Packer Assembly				
Distributor	-			
	- •			0//71
Packer Assembly	7/75"	1.53"	6'	2447
Flush Joint Anchor	5.75"	<u>3.75"</u>	10'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
		0.0511	201	•
Drill Collars	6.0"	2,25"	30.	
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars			_	
		3.75"	51	
Flush Joint Anchor				
Blanked-Off B.T. Running Case	5.75"	3.75"	5'	2497

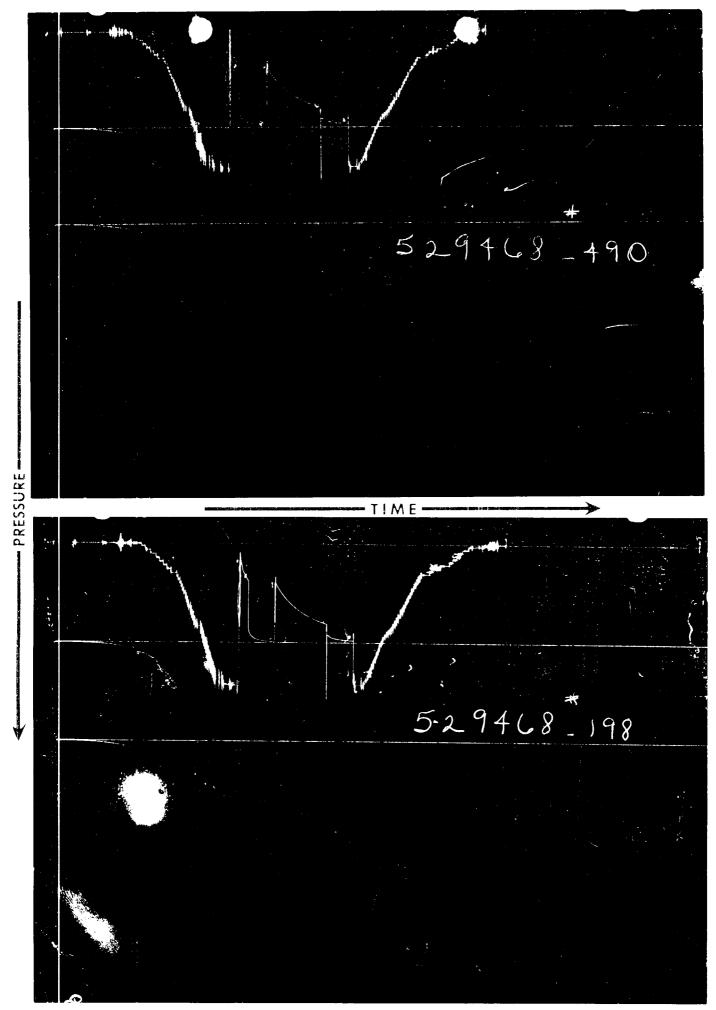
, , , , , , , , , , , , , , , , , , , ,	D SAMPLE	DATA		Date 7-7	7-72	Ticket Number	529468	8	Legal Lo Sec Tw	
Sampler Pressure		P.S.I.G.		Kind of Job OPI	EN HOLE	Halliburto District	n <b>V</b> ERNAI	.	Location Twp Rng.	
Recovery: Cu. Ft. cc. Oil	Gas			011	IN HODE		WEBSTI		8	
cc. Wat	er			Tester DAV	/IS	Witness	CRISM	AN		Lease Name
cc. Mud				Orilling DAT	/ED DDTTT	ING COMPANY		NM S	28	Z E
	uid cc					T & HOLE	DATA	NPI 5		Se Name
GravityGas/Oil Ratio				ormation Tested		Timpoweap 7	KALBAK	3 ?	39	F
Gas/Oil Ratio				Elevation		4700' K.B.		Ft.	S	
	RESISTIVI	TY ÇĦĻ	ORIDE I	Net Productive Ir	ILEI 401	16'		Ft.	8	
			11	All Depths Measu	area - 1011	<u>Kelly Bushi</u> 2757	ng		E	
Recovery Water	_	°F		Fotal Depth		8 3/4"		Ft.		
Recovery Mud Recovery Mud Filti				Main Hole/Casin Drill Collar Leng	th	540' I.D.	2.25"			<
Kecovery Mud Filti Mud Pit Sample	rate @ _ @ _			Orill Pipe Length		2160' <sub>I.D.</sub>	3.640	1		Well No.
Mud Pit Sample Fi	_		1	Packer Depth(s)_		2735' - 274	1'	Ft.	1	
Mud Weight	9.7	vis	''	Depth Tester Val	ve	2721'		Ft.		15
TYPE N	ONE	_	Depth Back	NONE	Surface	1/8" Bott		3/4"		
Cushion		Ft.	Pres. Valve	HONE	Choke	1/8" Cho	)Ke	<del>, , , , , , , , , , , , , , , , , , , </del>		Test No.
Recovered 1	740' Feet o	<sub>f</sub> water							Field Area	اخ ا
Recovered	Feet o	f		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>						1
Recovered	Feet o	f							WI	
Recovered	Feet o	f						Tester Valve	WILDCAT	
Recovered	Feet o	f							H	7,
Recovered Remarks			ith a goo	d blow - v	ery stron	g in 1½ min	utes of		H	Z/41
Remarks		opened w			111121				H	Tested Interval
Remarks minute	Tool	opened w	tool for	a 30 minu	te first	closed in p	ressure.	a 10		Tested Interval
Remarks minute Tool r	Tool first flow eopened with	opened w Closed	tool for	a 30 minu	te first	closed in p	ressure.	a 10		Tested Interval
Remarks minute Tool r	Tool	opened w Closed	tool for	a 30 minu	te first	closed in p	ressure.	a 10	T	Tested Interval
Remarks minute Tool r minute	Tool first flow eopened with second clos	opened w Closed a stron sed in pr	tool for	a 30 minudeclining	te first	closed in p	ressure.	a 10	County	Tested Interval
Remarks minute Tool r	Tool first flow eopened with second clos Gauge No. 490 Depth: 275	opened w Closed a stron sed in pr	tool for g blow - essure.  Gauge No. Depth:	a 30 minudeclining	te first  12 PSI in  Gauge No.	closed in p  25 minutes	ressure Took	a 10 a 31	County	Tested Interval
Remarks  minute  Tool r  minute	Tool first flow eopened with second clos Gauge No. 490 Depth: 273	opened w Closed n a stron sed in pr 22' Ft. Hour Clock	tool for g blow - essure.  Gauge No. Depth:	a 30 minudeclining  198 2754 Ft. 12 Hour Clock	te first  12 PSI in  Gauge No.  Depth:	closed in p  25 minutes  Ft.  Hour Clock	ressure. Took	a 10 a 31		Interval
Remarks  minute  Tool r  minute	Tool first flow eopened with second clos Gauge No. 490 Depth: 275	opened w Closed n a stron sed in pr 22' Ft. Hour Clock	tool for g blow - essure.  Gauge No. Depth:	a 30 minudeclining  198 2754 Ft. 12 Hour Clock	te first 12 PSI in Gauge No.	closed in p  25 minutes  Ft.  Hour Clock	ressure.  Took  Tin  Test Opened 5:	a 10 a 31	County	interval
minute Tool r minute  TEMPERATURE  Est. 98 •F.	Tool first flow. eopened with second clos Gauge No. 490 Depth: 27: 12 Blanked Off No.	opened w Closed n a stron sed in pr O 22' Hour Clock	tool for g blow - essure.  Gauge No. Depth: Blanked Off	a 30 minus declining  198 2754' Ft. 12 Hour Clock YES	Cauge No. Depth:	closed in p  25 minutes  Ft.  Hour Clock	Took  Took  Tin  Test Opened 5:	a 10  a 31  NE  **A***  10 P.M.	County	interval
minute Tool r minute  TEMPERATURE  Est. 98 •F.	Tool first flow eopened with second clos Gauge No. 490 Depth: 273 12 Blanked Off No.	opened w Closed a stron sed in pr Clock O Cloc	tool for g blow - essure.  Gauge No. Depth: Blanked Off	a 30 minudeclining  198 2754 Ft. 12 Hour Clock	Cauge No. Depth:	closed in p 25 minutes  Ft.  Hour Clock	Took  Took  Tin  Test Opened 5:	a 10  a 31  AE  **A***  00 P.M.  **A***	County	interval
Remarks  minute  Tool r  minute  TEMPERATURE  Est. 98 °F.	Tool first flow. eopened with second clos Gauge No. 490 Depth: 27: 12 Blanked Off No.	opened w Closed a stron sed in pr Clock Office 1414	tool for g blow - essure.  Gauge No. Depth:  Blanked Off  Pre Field 1448	a 30 minus declining  198 2754 Ft. 12 Hour Clock YES  ssures Office 1433	te first  12 PSI in  Gauge No.  Depth:  Blanked Off	closed in p  25 minutes  Ft.  Hour Clock	Took  Test Opened 5: Tool Closed 7:	a 10  a 31  NE  **A***  10 P.M.	County KANE	interval
Remarks  minute  Tool remainate  TEMPERATURE  Est. 98 °F.  Actual °F.	first flow eopened with second closs Gauge No. 490 Depth: 270 Blanked Off No. Pressu Field 1344 216	opened w Closed n a stron sed in pr O 22' Ft. Hour Clock O res Office 1414 88	tool for g blow - essure.  Gauge No. Depth:  Blanked Off Pre Field 1448 193	a 30 minus declining  198 2754 Ft. 12 Hour Clock YES  ssures  Office 1433 112	te first  12 PSI in  Gauge No.  Depth:  Blanked Off	closed in p  25 minutes  Ft.  Hour Clock	Took  Teet Opened 5: Tool Closed 7: Reported Minutes Minutes	a 10  a 31  AE  **A:M*  00 P.M.  **A:M*  10 P.M.  Computed  Minutes	County KANE	interval
Remarks  minute  Tool r  minute  TEMPERATURE  Est. 98 °F.  Actual °F.  Initial Hydrostatic  Flow Initial Final	first flow eopened with second closs second close second	opened w Closed n a stron sed in pr Clock O Cl	tool for g blow - essure.  Gauge No. Depth:  Blanked Off Pre Field 1448 193 344	a 30 minus declining  198 2754 Ft. 12 Hour Clock YES  ssures  Office 1433 112 377	te first  12 PSI in  Gauge No.  Depth:  Blanked Off	closed in p  25 minutes  Ft.  Hour Clock	Took  Test Opened 5: Tool Closed 7: Reported Minutes — 10	a 10  a 31  AE  **A**  00 P.M.  **A**  10 P.M.  Computed  Minutes  10	County	interval
Remarks  minute  Tool r  minute  TEMPERATURE  Est. 98 °F.  Actual °F.  Initial Hydrostatic  Flow Initial  Closed in	Tool first flow. eopened with second clos Gauge No. 490 Depth: 27: 12 Blanked Off No. Pressu Field 1344 216 337 941	opened w Closed n a stron sed in pr Clock O Closed O Clos	tool for g blow - essure.  Gauge No. Depth:  Blanked Off Pre Field 1448 193 344 978	198 2754' Ft. 12 Hour Clock YES  ssures  Office 1433 112 377 988	te first  12 PSI in  Gauge No.  Depth:  Blanked Off	closed in p  25 minutes  Ft.  Hour Clock	Took  Teet Opened 5: Tool Closed 7: Reported Minutes Minutes	a 10  a 31  AE  **A:M*  00 P.M.  **A:M*  10 P.M.  Computed  Minutes	County KANE	interval
Remarks  minute  Tool r  minute  TEMPERATURE  Est. 98 °F.  Actual °F.  Initial Hydrostatic  Flow Initial Final Closed in	Tool first flow. eopened with second clos  Gauge No. 490 Depth: 27: 12 Blanked Off No. Pressu Field 1344 216 337 941 364	opened w Closed n a stron sed in pr Closed Opened w Opene	tool for g blow - essure.  Gauge No. Depth: Blanked Off Pre Field 1448 193 344 978 386	198 2754' Ft. 12 Hour Clock YES  ssures  Office 1433 112 377 988 396	te first  12 PSI in  Gauge No.  Depth:  Blanked Off	closed in p  25 minutes  Ft.  Hour Clock	ressure.  Took  Time  Test Opened 5; Tool Closed 7; Reported Minutes  10 30	a 10  a 31  AE  **A***  00 P.M.  **A***  10 P.M.  Computed  Minutes  10  30	County KANE State	interval
Remarks  minute  Tool r  minute  TEMPERATURE  Est. 98 °F.  Actual °F.  Initial Hydrostatic  Flow Initial  Closed in  Closed in  Final  Final  Final	Field 1344 216 337 941 364 767	opened w Closed a stron sed in pr Clock O Closed a stron office 1414 88 361 972 380 785	tool for g blow - essure.  Gauge No. Depth: Blanked Off Pre Field 1448 193 344 978 386 937	198 2754 Ft. 12 Hour Clock YES  ssures  Office 1433 112 377 988 396 803	te first  12 PSI in  Gauge No.  Depth:  Blanked Off	closed in p  25 minutes  Ft.  Hour Clock	Took  Took  Took  Tool Closed 7: Reported Minutes  10 30 60	a 10  a 31  AE  **A.M.*  10 P.M.  Computed  Minutes  10  30  59	County KANE State	Interval
Remarks  minute  Tool r  minute  TEMPERATURE  Est. 98 °F.  Actual °F.  Initial Hydrostatic  Flow Initial  Closed in  Closed in  Closed in  Closed in  Closed in	Tool first flow. eopened with second clos  Gauge No. 490 Depth: 27: 12 Blanked Off No. Pressu Field 1344 216 337 941 364	opened w Closed n a stron sed in pr Closed Opened w Opene	tool for g blow - essure.  Gauge No. Depth: Blanked Off Pre Field 1448 193 344 978 386	198 2754' Ft. 12 Hour Clock YES  ssures  Office 1433 112 377 988 396	te first  12 PSI in  Gauge No.  Depth:  Blanked Off	closed in p  25 minutes  Ft.  Hour Clock	ressure.  Took  Time  Test Opened 5; Tool Closed 7; Reported Minutes  10 30	a 10  a 31  AE  **A***  00 P.M.  **A***  10 P.M.  Computed  Minutes  10  30	County KANE	Interval
Remarks  minute  Tool r  minute  TEMPERATURE  Est. 98 °F.  Actual °F.  Initial Hydrostatic  Flow Initial Final Closed in Final Closed in Initial Final Closed Initial	Field 1344 216 337 941 364 767	opened w Closed a stron sed in pr Clock O Closed a stron office 1414 88 361 972 380 785	tool for g blow - essure.  Gauge No. Depth: Blanked Off Pre Field 1448 193 344 978 386 937	198 2754 Ft. 12 Hour Clock YES  ssures  Office 1433 112 377 988 396 803	te first  12 PSI in  Gauge No.  Depth:  Blanked Off	closed in p  25 minutes  Ft.  Hour Clock	Took  Took  Took  Tool Closed 7: Reported Minutes  10 30 60	a 10  a 31  AE  **A.M.*  10 P.M.  Computed  Minutes  10  30  59	County KANE State	Interval
Remarks  minute  Tool r  minute  TEMPERATURE  Est. 98 °F.  Actual °F.  Initial Hydrostatic Flow Initial Final Closed in Ploy Flow Initial Final Closed in Final Closed in Final Flow Initial Final	Field 1344 216 337 941 364 767	opened w Closed a stron sed in pr Clock O Closed a stron office 1414 88 361 972 380 785	tool for g blow - essure.  Gauge No. Depth:  Blanked Off  Pre Field 1448 193 344 978 386 937	198 2754 Ft. 12 Hour Clock YES  ssures  Office 1433 112 377 988 396 803	te first  12 PSI in  Gauge No.  Depth:  Blanked Off	closed in p  25 minutes  Ft.  Hour Clock	Took  Took  Took  Tool Closed 7: Reported Minutes  10 30 60	a 10  a 31  AE  **A.M.*  10 P.M.  Computed  Minutes  10  30  59	County KANE State	Tested Interval  Lease Owner/Company Name
Remarks  minute  Tool r  minute  TEMPERATURE  Est. 98 °F.  Actual °F.  Initial Hydrostatic  Flow Initial  Closed in  Proper Flow Initial  Final  Closed in  Reference Initial	Field 1344 216 337 941 364 767	opened w Closed a stron sed in pr Clock O Closed a stron office 1414 88 361 972 380 785	tool for g blow - essure.  Gauge No. Depth:  Blanked Off  Pre Field 1448 193 344 978 386 937	198 2754 Ft. 12 Hour Clock YES  ssures  Office 1433 112 377 988 396 803	te first  12 PSI in  Gauge No.  Depth:  Blanked Off	closed in p  25 minutes  Ft.  Hour Clock	Took  Took  Took  Tool Closed 7: Reported Minutes  10 30 60	a 10  a 31  AE  **A.M.*  10 P.M.  Computed  Minutes  10  30  59	County KANE State	Interval

C	auge No.		490	F: .	Depth	2722¹		Clock No	. 71 Second	29	12 hour		529468		·
	First Flow Per	iod	Cie	First osed In Pressu	ıre	Flow	Period		sed In Pressu		Flow F	eriod		Third osed In Pressu	
	Time Defi.	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	88	.000		361	.000	380	.000		785				<u> </u>	
ij	.0136	174	.0205		904	.0621		.0274		916**				ļ	
2	.0272	262	.0410		927	.1311	590	.0479		930				ļ	
3	.0408	295	.0615		941	.2001	663	.0684		937			<u> </u>		
4	.0544	326	.0820		950	.2691	715	.0889		942			<b> </b>		ļ
5	.068	361	.1025		957	.3381		.1094		946			<u> </u>	ļ	
6			.1230		961	.407	785	.1299		949			<u> </u>	ļ	
7			.1435		964			.1504		952		<u> </u>	<u> </u>	ļ	
8		<del></del>	.1435		968			.1709		953			<b> </b>	<del> </del>	
9			.1845		970			.1914		955			<b> </b>		ļ
10			.205		972	<u> </u>		.212		959	<b> </b>				
11				•							<b> </b>		<u> </u>	-	
12								<u> </u>			<u> </u>		-		
13									ļ		ļ	<b></b>	<b> </b>		
14									ļ		<b> </b>				
15						<u> </u>	<u> </u>	<u> </u>			II		<u> </u>	<u> </u>	<u></u>
	Gauge No.		198		Depth		27541	Clock N	o.	3806	hour	12			
	•000	112	.000	<del></del>	377	.000	396	.000		803					
0	.014	186	.020		921	.0598		.0266		933**					
1	.028	275	.040	<del> </del>	944	,1262		.0465		944					
3	.042	311	.060	1	957	,1926	678	.0664		952					
4	.056	345	.080		965	,2590	731	.0863		957					<u> </u>
5	.070	377	.100		971	,3254	771	.1062		961					
	.070	3//	.120	<del>                                     </del>	976	.392	803	.1261		964					<u> </u>
7		1	.140		979	1	1	1460		965					
8		<del> </del>	.160	<del>                                     </del>	983	1		.1659		968					
9	<del> </del>	<del> </del>	.180	1	985			.1858		969					
10		<del>                                     </del>	.200	<del>                                     </del>	988			. 206		971					
11	<del> </del>		1 200	<del> </del>	700										1
12		<b> </b>	-	<del> </del>											
13	<del>                                     </del>		<del>                                     </del>	<del>                                     </del>									_		
14	<del>                                     </del>		┪	<u> </u>										_	1
15			1									<u> </u>	_		
	ading Interv	2	1	3		1			3		1				Minute
	MARKS:	*	INTERVAL	= 9 MIN	UTES. *	* INTERV	AL = 4 M	INUTES.							
, KE	41V/V2;														
•															

<i>E</i> 3		O. D.	I. D	LENGTH	DEPTH
	Reversing Sub	6.00"	2.75"	1'	
	Water Cushion Valve				
	Drill Pipe	4½"	3.640"	2160'	
	Drill Collars	6.0"	2,25"	540 <b>'</b>	
			•		
	Handling Sub & Choke Assembly	5"	.89"	5'	
•	Dual CIP Valve				
	Hydro-Spring Tester	5"	.75"	5'	2721 <b>'</b>
	Multiple CIP Sampler				
	Extension Joint		-		
	AP Running Case	5.0 <sup>11</sup>	3.90"	4'	2722
		5.0"	1.50"	5'	
	Hydraulic Jar		-		
	VR Safety Joint	5.0"	1.00"	3'	
	Pressure Equalizing Crossover				
	Packer Assembly	7:75"	1.53"	61	2735'
	Packer Assembly				
	Distributor		·····		
· •	Packer Assembly	7.75"	<u> </u>	61	274 <b>1</b> *
	Flush Joint Anchor	5.75 <b>"</b>	3.75"	81	
	Pressure Equalizing Tube				
	, ,				
	Blanked-Off B.T. Running Case				
	Drill Collars				•
	Anchor Pipe Safety Joint				
	•				
	Packer Assembly				
				•	
126.1	Packer Assembly				
			,		
	Anchor Pipe Safety Joint				
	Side Wall Anchor				
	GIGG TYGH FRIGHT			•	
	·		•		
	Drill Collars				
	Drill Collars				
	Flush Joint Anchor				
	Blanked-Off B.T. Running Case	5 75"	3.75"	5 50*	2754
	Blanked-Off B.T. Running Case				



Each Horizontal Line Equal to 1000 p.s.i.



Each Horizontal Line Equal to 1000 p.s.i.

Michael S. Webster

Consulting Geologist

555 Petroleum Club Building

Denver, Colorado 80202

893-6453

# GEOLOGICAL WELL REPORT

WEBB RESOURCES, INC. #28-13 Federal

Kane County, Utah

#### WELL DATA

Operator: Webb Resources, Inc.

Suite 1300, Denver Center Building

1776 Lincoln Street Denver, Colorado 80203

Well:

#28-13 Federal

Location:

SW SW Section 28

T39S R8E

Kane County, Utah

Wildcat

Elevations:

4700' KB

4691 Ground

Contractor:

Barker Drilling and Well Service Company

Vernal, Utah

Commenced:

June 28, 1972

Surface Casing:

13 5/8" set at 215' KB with 160 sacks

Hole Size:

8 3/4"

Drilling Fluid:

Low Solids Gel with Crude Engineer: Dan Reid, Milchem

Escalante, Utah

Cores:

None

Drillstem Tests:

Halliburton, Vernal, Utah Wayne Davis, Tester

Samples:

Delivered to American Stratigraphic,

Denver, Colorado, on July 11, 1972

Logging:

Schlumberger Induction and Compensated

Sonic with Gamma Ray Engineer: Mike Martin

Farmington, New Mexico

Total Depth:

Reached 3:30 A. M., July 9, 1972

3091 Driller

3092! Log

Status:

Plugged and Abandoned, July 10, 1972

### WELL HISTORY

			77	
Date	Depth	Activity	Footage <u>Made</u>	Remarks
6-28		Pigging up		Spud at 9:00 P.M.
6-29		Reaming		Reamed 13 1/4" Surface Hole to 17 1/8", Ran 13 3/8" casing to 215', KB, cemented with 215 sacks.
6-30	2151	Nippling up	215	
7-1	1100	Drilling	885*	
7-2	<b>16</b> 50'	Drilling	550	
7-3	19371	Trip for bit #3	287	8 hours working tight hole.
7-4	22201	Drilling	283	
<b>7–</b> 5	2501	Circulating for DST #1	281 '	
7-6	25251	Drilling	241	
7-7	<b>27</b> 57'	Circulating for DST #2	2321	
7 <b>-</b> 8	28571	<b>Drilling</b>	1001	
7-9	<b>30</b> 91 <b>'</b>	Circulating for logs	2341	Reached TD at 3:30 A.M. Began logging at 2:15 P.M. Finished logging at 6:00 P.M.
7-10	3091 •	Plugging		

# BIT RECORD

Run	Size	<u>Make</u>	Type	Depth <u>Cut</u>	Footage	Hours
X 1 2 3 4 5	13 1/4" 17 1/8" 5 3/4" 5 3/4" 5 3/4" 3 3/4" 3 3/4"	Reed Reed Reed Reed Security Security Security Hughes	YT1AJ H.O. YS1G SCH5-J DNJ M4NG N4NG J44	255 226 576 1937 2261 2501 2757 3091	255' 226' 321' 1361' 324' 240' 256' 333'	8 1/2 3 1/4 7 58 17 3/4 9 1/2 13 26 1/2 143 1/2

#### DEVIATION RECORD

Depth	Deviation	Depth	Deviation
226' 255' 576' 1937'	3/4° 0 1 3/4° 2 1/2°	2261 • 2501 • 2757 •	3 3/4° 4 1/2° 2 3/4°

#### PLUGGING PROGRAM

Verbal plugging orders were received from Mr. Gerald Daniels, United States Geological Survey, Salt Lake City, on July 9, 1972, at 10:00 A. M.

<u>Interval</u>	Sacks
2825'-2725'	40
1000'-900'	40
250'-175'	40
Surface	10, with dry hole marker

#### FORMATION TOPS

Formation	Los Depth	Datum
Chinle	1730'	+2970'
Shinarump	2445'	+2255'
Moenkopi	2531'	+2169'
Kaibab	2738'	+1962'
White Rim	2815'	+1885'

#### DRILLSTEM TESTS

DST#1 2447'-2501' Conventional test (Shinarump Formation) Open 10", Shut in 30", Open 60", Shut in 30". Tool opened with strong blow, bottom of bucket in 1 minute.

Recovered: 60' slightly mud cut water 1875' water, Rw = 1.04 @ 72°

H.P. 1263#-1257#
1st F.P. 121#-391#
2nd F.P. 418#-820#
S.I.P. 954#-963#
B.H.T. 88°

DST#2 2741'-2756' Conventional test (Kaibab Formation)
Open 10", Shut in 30", Open 60", Shut in 30".
Tool opened with strong blow, bottom of bucket in 1 1/2 minutes.

Recovered: 1740' Sulfur water, Rw = 2.23 at 72°

H.P. 1443#-1434# 1st F.P. 193#-386# 2nd F.P. 344#-937# S.I.P. 973#-950# B.H.T. 98

#### FIELD LOG CALCULATIONS

Formation	<u>Depth</u>	Rw	Porosity	Sw
Shinarump " Kaibab " " " " White Rim	24501 24701 25001 27431 27431 27601 28001 28251	0.75 0.75 0.75 1.60 1.60 1.60 1.60	15% 17% 18% 17% 17% 15% 15%	90% 72% 69% 35% 93% 100% 92%

#### GEOLOGICAL DISCUSSION

The Webb Resources #23-13 Federal was drilled to a total depth of 3091' and plugged and abandoned on July 10, 1972.

Show evaluation by samples was complicated due to the fact that up to 17% crude oil was in the mud.

Valid shows were observed in the Permian Kaibab Formation. Stain was observed throughout this interval on fresh breaks in the samples. A drillstem test of the upper part recovered sulfur water. The Triassic Shinarump Sand also carried shows that are believed to be valid. Due to the friable nature of this sand, evaluation was difficult, but several tighter chips had stain throughout. A drillstem test recovered water.

Another primary objective, the White Rim Sand of Permian Age, carried no valid shows. All staining in this interval was obviously contamination.

Due to the good sample shows in the Kaibab, and the probable shows in the Shinarump, further geological investigation of the area seems merited.

Muchael S. Webster

#### SAMPLE DESCRIPTION

Samples adjusted to log depths. Sample quality, fair to good.

- 2501-2301 Sand, pink to orange, medium to coarse grained, fair sorted, good porosity, no shows. 2801-3701 Sand, orange to red, fine to medium grained, friable, fair sorted, subround, good porosity, no shows. 3701-4901 Sand, as above, part conglomeratic, good porosity. no shows. Part slightly dolomitic. 4901-5201 Sand, orange to pink, medium grained, well sorted, subround, trace gypsum, good porosity, no shows. 5201-7901 Sand, orange to pink, medium to coarse grained, part conglomeratic, fair sorted, subround, good porosity, no shows. 790'-1130' Sand, as above, becoming finer grained, scattered interstitial white clay, fair porosity, no show. 1130'-1210' Sand, pink to orange, fine to medium fine grained, scattered coarse grains, fair sorted, subround, part clay plugged, fair to good porosity, no shows. 1210'-1440' Sand, as above, interbedded with siltstone, red to orange, sandy, slightly dolomitic. 1440'-1630' Sand, red to lavender, fine grained, fair sorted, subround, slightly dolomitic, fair to poor porosity, no shows, interbedded with siltstone, as above. 1630'-1730' Sand, orange to pink, fine grained, fair to well sorted, subround, fair to good porosity, no show, interbedded with claystone, red. Interbedded Siltstone, red, orange, sandy, dolomitic, 1730'-1950'
- 1950'-2035' Claystone, orange, red, pink, green, subwaxy in part, occasional dolomite nodule, occasional coarse floating sand grains.

calcareous.

and Dolomite, pink, very finely sucrosic, shaley, and Claystone, lavender to pale green, slightly

2085'-2175' As above, interbedded with Sand, light gray to white, medium to coarse grained, very friable, part slightly arkosic, probably good porosity, no shows.

- 2175'-2220' Claystone, purple to pale green, subwaxy, slightly calcareous.
- 2220'-2445' Mostly Siltstone, orange to gray green, sandy, calcareous, part glauconitic, interbedded with Claystone, gray green.
- 2445'-2531' Sandstone, buff to gray, medium grained, fair sorted, subround to subangular, good porosity, friable, fair yellow fluorescence, light stain, fair to good cut. (This show is in part contamination from crude in mud system. Part, however, is probably a true show. Several lighter chips had stain on fresh breaks.)
- 2531:-2610: Interbedded Shale, red to brown, blocky, firm, silty, calcareous in part, and Siltstone, brown to dark red, sandy, with Claystone, brown, blocky.
- 2610:-2690: As above, with much Siltstone, red, calcareous, sandy, hard.
- 2690:-2741: Mostly Siltstone, brown to pink, sandy, dolomitic, trace pyrite, with stringers of Sand, gray, fine grained, tight, no show.
- 2741:-2770: Dolomite, tan, finely sucrosic, slightly sandy, fair to good pinpoint and vuggy porosity, uniform brown stain, good yellow fluorescence, good streaming cut. (Show partially due to contamination, but mostly due to a true show.)
- 2770:-2815: Dolomite, as above, good porosity, good show, becomes very sandy in part, interbedded with Sand, light gray to buff, medium grained, subround, well sorted, fair to good porosity, uniform brown stain, good fluorescence and cut.
- 2815:-2855: Sand, as above, fair to good porosity, several tight chips with no stain on fresh breaks indicating no true shows. Interbedded with Dolomite (20% Dolomite), as above, no shows.
- 2865'-2960' Sand, light gray, fine to medium grained, fair sorted, subround, fair porosity, no shows. (contaminated)
- 2960'-3091' Sand, as above, interbedded with Shale, varicolored, part silty and sandy, hard, part slightly anhydritic. No shows.

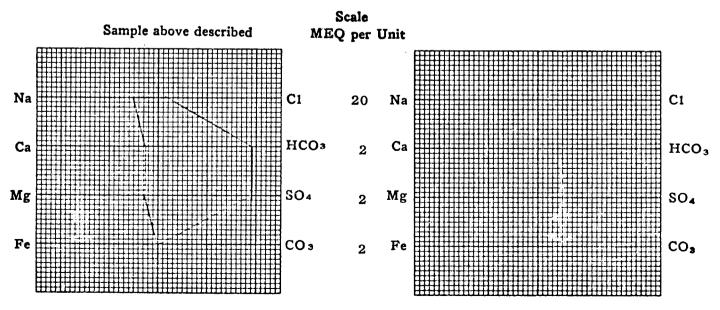
#### CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794 Casper, Wyoming

#### WATER ANALYSIS REPORT

OPERATORV	lebb Resources		DATE July 25,	1972	LAB NO	8246-1
WELL NO2	8-13 Federal		LOCATION	SW SW 2	8-39S-8E	
FIELDV	lildcat		FORMATION	Shinaru	mp	
COUNTY	Kane		INTERVAL	2447-25	01	
STATE	Jtah		SAMPLE FROM_	DST No.	1 (Botto	om )
REMARKS & CON	CLUSIONS: Oily	water with	clear filtrate.			
Cations Sodium	mg/1 2132	meq/1 92,74	Anions		mg/1	
Potassium	91	2.33	Sulfate		1856 980	38,60
Lithium			Chloride '		960	27.64
Calcium	103	5,14	Carbonate	• • • —	2342	38.41
Magnesium	54	4.44	Bicarbonate	• • • —	_2342	20.41
Iron	present		Hydroxide Hydrogen sulfide	• • •		
Tota	d Cations	104.65	Tot	al Anions		104.65
<b>.</b>	s, mg/1	6369 4969 7.6	Specific resistance @ Observed Calculated	0 68°F.:	1.25 1.25	ohm-meters ohm-meters

#### WATER ANALYSIS PATTERN



#### STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL & GAS CONSERVATION 1588 West North Temple Salt Lake City, Utah 84116

#### REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Numbe	ル #28 <b>-13</b>	Federal		
Operator <u>Webb</u> F	Resources, I	nc. Address	Denver, Colorado	Phone <b>892–5504</b>
Contractor Bark	ker Drilling	Address	Vernal, Utah	Phone_ <b>789–2101</b>
Location SW 1/4	_sw_1/4 Sec.	28 <sup>T</sup> . 39s	N R. 8E E Kane	County, Utah.
Water Sands:				
<u>Depth</u> : From-	To-	Volun Flow Rate o	ne: Dr Head-	<u>Quality:</u> Fresh or Salty-
1. Surface	1700 Nave	jo		Fresh
2. 2450	2530 Shin	aru <u>mp</u>		Fresh
<sup>3</sup> . <u>2738</u>	2815 Kaib	ab		Fresh
4.				
5.			inue on reverse side if	(necessary)
Formation Tops:				
Chinle	1730	Kaibab	2738	
Shinarump	2445 2531	White Rim	2815	
Moenkopi	2JJ I			
Romanbs:				

NOTE:

(a) Upon diminishing supply of forms, please inform this office.
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See back of this form)

(c) If a water analysis has been made of the above reported zone,

please forward a copy along with this form.

#### CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794 Casper, Wyoming

#### WATER ANALYSIS REPORT

WELL NO. 2 FIELD W COUNTY K	lebb Resources 18-13 Federal Vildcat Kane		DATE July 25, LOCATION FORMATION INTERVAL SAMPLE FROM	1972 SW SW 28 Shinarum 2447-250 DST No.	p 1	
REMARKS & CON	CLUSIONS: Oily	water with	clear filtrate.			
Cations	mg/1 2132	meq/1	Anions	-	mg/1	
Sodium	91 - 103 - 54 - present	92.74 2.33 5.14 4.44	Sulfate Chloride Carbonate Bicarbonate Hydroxide Hydrogen sulfide		1856 980 - 2342 -	38,60 27,64 - 38,41
Total dissolved solids NaC1 equivalent, mg		6369 4969 7.6	To Specific resistance @ Observed Calculated	dal Anions	1.25 1.25	ohm-meters

#### WATER ANALYSIS PATTERN

